ABSTRACT OF THE DISCLOSURE

The present invention provides a millimeter-wave passive FET switch by using impedance transformation network to transfer the effective capacitance seen from the drain to source of an FET at off-state to low impedance, while transfer low impedance seen at on-state to high impedance. Since both on-state and off-state are transferred to high impedance and low impedance respectively, a high-performance switch can be achieved. Since the size of the transformation network is small, the performance of the switch can be promoted with low cost.